

## **Remarks**

Applicants respectfully request that this Amendment After Final Action be admitted under 37 C.F.R. § 1.116.

Applicants submit that this Amendment presents claims in better form for consideration on appeal. Furthermore, applicants believe that consideration of this Amendment could lead to favorable action that would remove one or more issues for appeal.

Claims 4, 12 and 17 have been amended. No claims have been canceled. Therefore, claims 4-23 are now presented for examination.

Claims 4-5, 12-14 and 7-18 stand rejected under 35 U.S.C. §102(e) as being anticipated by Kever et al. (U.S. Pub. No. 2003/0131184). Applicants submit that the present claims are patentable over Kever.

Kever discloses a method for storing lines of data in a data array of a cache memory mapped to a main memory of a processing system. The data array includes data storage lines having equal lengths. The method includes compressing at least one of the lines of data, fitting the compressed line of data within a subsection of one of the data storage lines, and pointing to the subsection using a tag array. When lines of data are stored in compressed form, more lines can fit into the cache, and a probability of a cache hit is increased. See Kever at Abstract.

Claim 4 of the present application recites a memory controller having a compression map to indicate whether a cache line corresponding to a block of data in a system memory is in a compressed format and a type of compression used for each cache line stored in a compressed format. Applicants submit that nowhere in Kever is there

disclosed a compression map indicating a type of compression used for each cache line stored in a compressed format. Thus, claim 4 is patentable over Kever. Claims 5-11 depend from claim 4 and include additional features. Thus, claims 5-11 are also patentable over Kever.

Claim 12 recites updating a compression map within a memory controller to indicate a type of compression used for each cache line stored in a compressed format. For the reasons described above with respect to claim 4, claim 12 is also patentable over Kever. Because claims 13-16 depend from claim 12 and include additional features, claims 13-16 are also patentable over Kever.

Claim 17 recites a memory controller having a compression map to indicate whether a cache line corresponding to a block of data in a system memory is in a compressed format and a type of compression used for each cache line stored in a compressed format. Therefore, for the reasons described above with respect to claim 4, claim 17 is also patentable over Kever. Since claims 18-23 depend from claim 17 and include additional features, claims 18-23 are also patentable over Kever.

Claims 6-11, 15-16, and 19-23 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Kever et al. in view of Okada et al. (U.S. Pub. No. 2002/0040413). Applicants submit that the present claims are patentable over Kever even in view of Okada.

Okada discloses a disk control apparatus includes a host interface unit for inputting and outputting data from and to a host, a cache memory for temporarily storing the input data, a compression/decompression unit for compressing or restoring the input data and outputting the data, a buffer memory for temporarily storing the compressed

data outputted from the compression/decompression unit, a disk access control unit for controlling an access to a disk and a disk data management unit for making a management as to which position of a disk storage device to write the data stored in the cache memory. See Okada at Abstract.

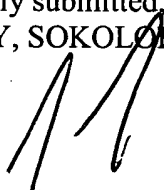
Nevertheless, Okada does not disclose or suggest a compression map indicating a type of compression used for each cache line stored in a compressed format. As discussed above, Kever does not disclose or suggest such a feature. Thus, any combination of Kever and Okada would not disclose or suggest the feature. As a result, the present claims are patentable over Kever in view of Okada.

Applicants respectfully submit that the rejections have been overcome, and that the claims are in condition for allowance. Accordingly, applicant respectfully requests the rejections be withdrawn and the claims be allowed.

The Examiner is requested to call the undersigned at (303) 740-1980 if there remains any issue with allowance of the case.

Please charge any shortage to our Deposit Account No. 02-2666.

Respectfully submitted,  
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